

# Electric Power and Power Electronics Institute

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**WEEKLY SEMINAR SERIES – SPRING 2015**  
Wednesday, Apr. 29<sup>th</sup>, 2015, 3:00 – 3:50 p.m., WERC 236C

## **POWER QUALITY STUDY ON A DISTRIBUTION CIRCUIT: A CASE STUDY**

Paul A. Thomas  
Oncor Electric Delivery

### **Abstract**

Power quality disturbances are becoming more common as non-linear load continues to increase on the electric grid. This study gives the background investigation into a power quality disturbance that led to the subsequent investigation to identify possible non-compliance to IEEE STD 519 on a particular circuit and a review of Oncor's capacitor placement philosophy.

### **Biography**

Paul A. Thomas is an engineer with System Planning at Oncor Electric Delivery where he performs special studies and planning reviews. He received a bachelor of science in Electrical Engineering from the University of Texas at Austin in December 2013 and is registered with the Texas State Board of Professional Engineers as an Engineer-In-Training. His research interests include the development of new technology for locating faults in a power system, the use of renewable energy for demand response, and the use of new technology to increase transmission grid stability.